

Title (en)
BLADE CHANNEL, BLADE ROW AND TURBOMACHINE

Title (de)
SCHAUFELKANAL, SCHAUFELGITTER UND STRÖMUNGSMASCHINE

Title (fr)
CANAL D'AUBE, GRILLE D'AUBE ET TURBOMACHINE

Publication
EP 3225781 A3 20171108 (DE)

Application
EP 16201361 A 20161130

Priority
DE 102015224376 A 20151204

Abstract (en)
[origin: US2017159444A1] A blade channel of a turbomachine that is delimited in the circumferential direction of the turbomachine by a pressure side of an airfoil and by an opposite suction side of an adjacent airfoil that, in the radial direction of the turbomachine, is delimited by two opposing side walls, and whose extent in the axial direction of the turbomachine is delimited by leading edges and by trailing edges of airfoils; at least one of the side walls being provided with localized contours, of which at least two are formed as elevations and at least two as depressions; a saddle surface being formed between the contours that, in one rotation, alternately merges into an elevation and a depression; a blade cascade having such blade channels, as well as a turbomachine having such a blade cascade.

IPC 8 full level
F01D 5/14 (2006.01); **B63H 1/26** (2006.01); **F01D 5/02** (2006.01)

CPC (source: EP US)
B63H 21/00 (2013.01 - US); **B64D 27/02** (2013.01 - US); **F01D 5/02** (2013.01 - US); **F01D 5/143** (2013.01 - EP US); **F01D 5/145** (2013.01 - US); **B63H 1/26** (2013.01 - EP US); **F05D 2220/30** (2013.01 - US); **Y02T 50/60** (2013.01 - EP)

Citation (search report)

- [XD] EP 2487329 B1 20131127 - MTU AERO ENGINES AG [DE]
- [X] FR 2928174 A1 20090904 - SNECMA SA [FR]
- [A] EP 2835499 A1 20150211 - MTU AERO ENGINES AG [DE]
- [A] EP 2692986 A1 20140205 - MTU AERO ENGINES AG [DE]

Cited by
US11319820B2; EP3260660A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 10458248 B2 20191029; US 2017159444 A1 20170608; DE 102015224376 A1 20170608; EP 3225781 A2 20171004; EP 3225781 A3 20171108; EP 3225781 B1 20191113; ES 2759108 T3 20200507

DOCDB simple family (application)
US 201615365339 A 20161130; DE 102015224376 A 20151204; EP 16201361 A 20161130; ES 16201361 T 20161130